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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/002,762	10/24/2001	Goh Kondoh	JP9-2000-0274	4365
33360	7590	05/21/2004	EXAMINER	
MARK D. MCSWAIN IBM ALMADEN RESEARCH CENTER, IP LAW DEPT. 650 HARRY ROAD CHTA/J2B SAN JOSE, CA 95120			BONZO, BRYCE P	
		ART UNIT		PAPER NUMBER
		2114		
DATE MAILED: 05/21/2004				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/002,762	KONDOH ET AL.	
	Examiner	Art Unit	
	Bryce P Bonzo	2114	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 24 October 2001.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-16 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 1-16 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on 24 October 2001 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____

NON-FINAL OFFICIAL ACTION

Status of the Claims

Claims 1-16 are rejected under 35 USC §102.

Rejections under 35 USC §102(e)

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-16 are rejected under 35 U.S.C. 102(e) as being anticipated by Gessner (United States Patent Application Publication US 2002/0032709).

As per claims 1-16, Gessner discloses:

1. A structure recovery system comprising:

analysis means for analyzing the structure of a data string written in accordance with a predetermined rule and for detecting an error in accordance with said predetermined rule (page 3, ¶25: "fairly simple scanner"); and

recovery means for, upon the receipt of a request from said analysis means, correcting in accordance with said predetermined rule said error detected in said data

string by said analysis means (Page 3, ¶29: "now allows such tokens and constructs to be fixed"),

wherein said recovery means includes a set of correction means that individually employ simple functions for correcting specific types of errors (Page 3, ¶28: the DTDs fulfill these requirements), and

wherein said recovery means selectively employs said correction means based on the error type in accordance with said predetermined rule in order to correct a variety of errors in said data string (page 3, ¶29: illustrates this with the <p>...<p> example).

2. A parsing system, for performing the parsing of a data string written in accordance with a predetermined rule, comprising:

a parser for performing a parsing process (page 3, ¶27); and

a syntax recovery unit for, upon the receipt of a request from said parser, correcting an error detected by said parser in said data string (page 3, ¶29: "suppose parsing engine were to realize"),

wherein said syntax recovery unit can change the contents of a correction (page 3, ¶29: "transformed into well-formed expressions").

3. The parsing system according to claim 2, wherein multiple types of said syntax recovery units are prepared in accordance with the types of errors that are detected by said parser in said data string (Page 3, ¶28: DTD prepare the parser), and each of said

syntax recovery units has a function for correcting a specific type of error (Page 3, ¶29: as defined by the replaceable DTD).

4. The parsing system according to claim 3, further comprising:

corresponding information storage means for storing information that correlates the type of data string with a syntax recovery unit for recovering from an error in said data string (Page 3-4, ¶33 and ¶41),

wherein, in accordance with the type of target data string, said parser employs said information stored in said corresponding information storage means to set up said syntax recovery unit for the correction of an error upon the receipt of a request (Page 4, ¶35).

5. The parsing system according to claim 3, wherein, when said target data string includes an element that is not defined by a rule that said parser employs for said parsing process, at least one of said syntax recovery units is activated and performs a process for replacing said rule used by said parser with a rule that defines said element in said target data string, and for returning said target data string to said parser (Page 4, ¶37).

6. The parsing system according to claim 2, further comprising:

a lexical analyzer, for performing token analysis for said target data string (Page 3, ¶25: HTML and XML); and

a token recovery unit, for correcting an error detected by said lexical analyzer in said token in said data string (Page 3, ¶29: transformation of the otherwise malformed documents),

wherein said token recovery unit can change the contents of a correction (page 3, ¶ 29: constructs to be fixed).

7. The parsing system according to claim 6, wherein multiple types of said token recovery units are prepared in accordance with the type of error that is detected by said lexical analyzer in said data string, and each has a function for correcting a specific type of error (Page 3, ¶28-29).

8. A system for converting a data string in a predetermined form into a data string in another form comprising:

an analyzer for analyzing said data string (page 3, ¶25);

a recovery unit, for, upon the receipt of a request from said analyzer, correcting an error detected in said data string by said analyzer (page 3, ¶29); and

a converter, for changing a data form in accordance with the results obtained by said analyzer (Page 3, ¶28),

wherein multiple types of said recovery units are prepared in accordance with the type of error that is detected by said analyzer in said data string, and each has a function for correcting a specific type of error (Page 3, ¶27-29).

9. The conversion system according to claim 8, wherein said analyzer is parsing means for parsing said data string (page 3, ¶25), and said recovery unit is syntax recovery means for correcting an error in said data string in accordance with a syntax rule (Page 3, ¶29).

10. A computer comprising:

an input unit for receiving a data string written in accordance with a predetermined rule (Figure 1, Scanner component);

a processor for processing said data string by using a function implemented by program control (Page 3, ¶33); and

an output unit for outputting said data string obtained by said processor (page 1, Sink Component),

wherein said processor includes

an analyzer for analyzing said data string (page 3, ¶25); and
a recovery unit, for, upon the receipt of a request from said analyzer (Page 3, ¶29), correcting an error detected in said data string by said analyzer (page 3, ¶29), and

wherein multiple types of said recovery units are prepared in accordance with the type of error that is detected by said analyzer in said data string, and each has a function for correcting a specific type of error (Page 3, ¶29; Page 4, ¶36-37).

11. The computer according to claim 10, wherein said analyzer is parsing means for parsing said data string (Page 3, ¶25), and said recovery unit is syntax recovery means for correcting an error in said data string in accordance with a syntax rule (Page 3, ¶29).

12. A parsing method for parsing a data string written in accordance with a predetermined rule comprising the steps of:

selecting a program module used to correct an error in a target data string in accordance with a syntax rule (Page 3, ¶27);

parsing said data string (Page 3, ¶27);

issuing a correction request to said program module when said parsing detects an error in accordance with said syntax rule in said data string (page 3, ¶29); and

correcting said error using said program module, and parsing the obtained data string (page 3, ¶29).

13. The parsing method according to claim 12, wherein said step of selecting a program module for use includes the steps of:

examining the type of said target data string (Page 3, ¶27); and

employing said type of said target data string to select said program module based on a correlation that is defined in advance (page 3, ¶28).

14. The parsing method according to claim 12, further comprising the step of:

replacing, upon the receipt of an instruction from said program module to which said correction request has been issued, a rule used for said parsing with a different rule (page 3, ¶31),

wherein, at said step of performing said parsing for the resultant data string, said parsing is performed for said data string written in accordance with said different rule (page 3, ¶31).

Claim 15 is the computer readable program product stored on a media embodiment of the conversion system of claim 8, and is rejected on the same grounds.

Claim 16 is the program transmission apparatus embodiment of the conversion system of claim 8, and is rejected on the same grounds.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bryce P Bonzo whose telephone number is (703) 305-4834. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Beausoliel can be reached on (703) 305-9713. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Bryce P Bonzo
Examiner
Art Unit 2114
